

Where wear bites in material handling

Bulk-material handling concentrates wear at the points where the flow changes direction or speed - **transfer chutes, hoppers, silo outlets, conveyor skirt boards, screw-conveyor troughs and bucket-elevator boots**. Sliding abrasion grinds the surface; particle impact at every drop-off accelerates the loss. The handled material - coal, lime, fly ash, alumina, fertiliser, grain, cement, ore, aggregate - sets how aggressive that wear is and which AR grade earns its keep. Q&T AR plate replaces mild-steel liners and bolt-on rubber lagging across the bulk-handling chain, typically tripling liner life and cutting the unscheduled shut-down rate dramatically.

Components where AR plate goes

In bulk-handling plants and equipment, Tradepass AR wear plate is supplied for:

- Belt-conveyor transfer chutes, head-pulley scrapers, tail-pulley skirts and skirt-board liners.
- Bucket elevators - boot walls, head-section liners and elevator-bucket front lips.
- Screw conveyors - trough wear plates, trough end-walls and screw-flight guards.
- Drag-chain conveyors - bottom-trough and side-wall liners.
- Apron feeders, vibratory feeders and pan feeders - pan liners and side walls.
- Silos and hoppers - outlet-cone liners, side-wall liners, deflector plates and discharge gates.
- Pneumatic-conveying systems - wear elbows, blow-pot transitions and diverter valves.
- Stacker-reclaimer scrapers, ship-loader chutes, port-side rail hopper bottoms and grab-bucket interiors.
- Bag-house and cyclone interior wear plates where dust load is heavy.

Plates are cut to size, bevel-prepared, hole-drilled for bolt-ons and formed where the part needs it, supplied with **mill test certificate** showing heat number, chemistry and mechanicals - traceable from the mill to your shop floor.

Grade recommendations from the Tradepass stock range

Where it goes	Recommended grade	Tradepass stock
Light wear: grain and fertiliser chutes, light skirt boards, low-velocity hopper liners	AR200	5-25 mm, both warehouses
General wear: coal and lime conveyor chutes, screw-conveyor troughs, silo outlet cones	AR400	2-100 mm, both warehouses
Heavy wear: stacker-reclaimer scrapers, ship-loader chutes, ore and aggregate hopper liners	AR500	3-80 mm, both warehouses
Extreme abrasion: pneumatic-conveying wear elbows, alumina and fly-ash transfer points	AR600	5-16 mm, both warehouses
High-impact: grab-bucket lips, port-side rail-hopper floor plates, transfer drops over 3 m	Mn13 (work-hardens to ~550 HB)	6-100 mm, both warehouses

Why Tradepass

Mill-direct import from leading Indian and global mills - Tata Steel, AMNS India, Jindal Steel (JSPL), Baosteel, Shougang. Both Kalamboli and Faridabad warehouses carry the full AR range plus S690QL high-strength plate. WhatsApp us the material, the equipment and the wear face - we recommend a grade, thickness and cut size, usually within the hour during working hours.